Unveiling the Secrets of Near Task Specific Lenses

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Disclosures

- The content of this course was developed independently without commercial bias or influence
- Consulting
  - Essilor Instruments, USA
  - Visionix USA
  - Topcon Healthcare
  - Quest Vision Care Specialty Lab

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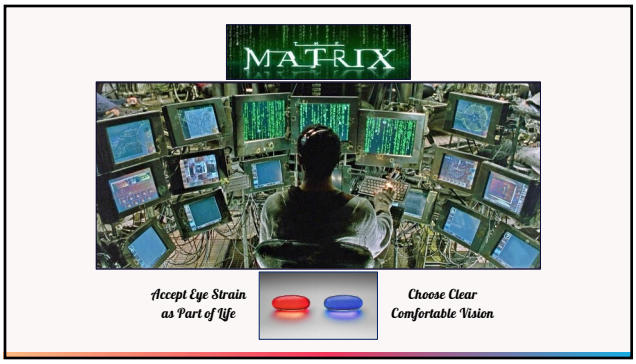

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Learning Objectives

- Technology Timeline
- Trends and Demographics
- Ergonomics
- Lens Analysis and Contour Plots
- Task Specific Lens Solutions
- Understanding Near Task Specific Lens Designs
  - Near Variable Focus (Computer, Occupational)
    - Full Range
    - Intermediate/Near
  - Powerboost
- Product Portfolios
- Case Presentations

Please use this presentation for staff training and review

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Technology Timeline:

Over a century ago

1920's - 1930's - Radio
1940's - 1950's - B&W TV
1950's - 1990's - Color TV
1990 - present- HD TV

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The Digital Revolution:
Shift from Mechanical to Electronic

One small, handheld device

Lots of large individual things

50 years: Radio to Computer
20 years: digital devices major part of life

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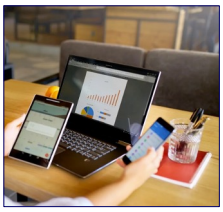
The Physical and Visual Response

1990's: Computers are the major source of information



- Breakdown of DES* Symptoms
- (6 out of 10 adults report)

- 35% Neck/shoulder pain
- 27% Dry eyes
- 28% Headaches
- 32% Eye strain
- 28% Blurred vision

* DES = Digital Eye Strain, formerly Computer Vision Syndrome (CVS)

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How is the relevant to vision care?

Today's presbyope is not the same as 20 years ago
Onset of near symptoms at a younger age

90% of patients do not talk with their eye care provider about digital device usage.

of Americans said they did not know about the benefits of computer eyewear.

Eyestrain is a normal part of life we simply put up with 

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Digital Eye Strain – Symptoms

- Red, Dry, Irritated, Sore Eyes
- Blurred Vision at Distance and/or Near
- Eye Fatigue
- Neck and Back Pain
- Headaches
- Double Vision

☆ Digital Eye Strain – Areas of Concern

- Refractive Errors
- Accommodative Disorders
- Binocular Vision Dysfunctions
- Presbyopia

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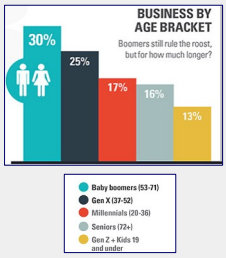
Who are our Patients?



Eyecare Business Mega Market Trends

- Baby Boomers + Gen X = largest segments of most practices
- 62 % Dispensary revenue is premium lenses
- Computer, anti-fatigue, PAL's sales are increasing

Vision Monday: June 2022, Millennials are the New Emerging Presbyopes

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Increased Usage/Poor Ergonomics

Tx = Personalized near task specific lenses

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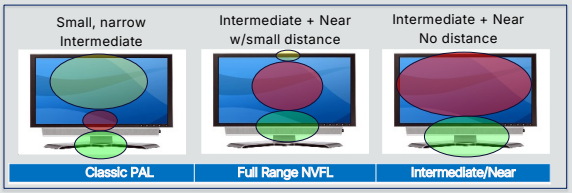
Why Use A Computer Lens?

PAL	Computer Lens
• Narrow corridor	• Wide corridor
• Intermediate positioned low	• Intermediate positioned at straight gaze and/or below
• Small near zone	• Large near zone



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Presbyopic Personal Computer Work: A Comparison of Progressive Addition Lenses for General Purpose and Personal Computer Work

Kolbe, Oliver, MEng[1*]; Degle, Stephan, MSc, PhD[1]

Optometry and Vision Science

STUDY: 190 presbyopic computer users compared GW PAL to computer specific (CSL) glasses for 2 weeks each using a 24-item questionnaire.

RESULTS: CVS symptoms were perceived 7X more often with PAL compared to Computer specific lenses. 84% of subjects preferred CSL when using a computer. Only 14% of subjects had been told about CSL by their eye care provider. 79% wished they had been informed about them.

Conclusions: CSL reduce the symptoms of CVS, increase visual comfort and improve computer ergonomics.

Takeaway Message: We need to do a better job of talking to about visual needs and recommending task specific lenses.

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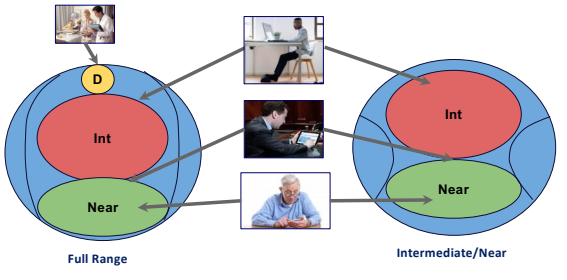
Visual Demand & Ergonomics



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Wavefront Analysis

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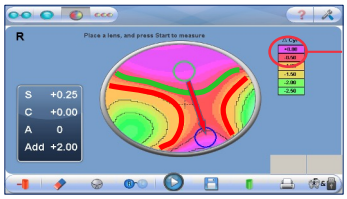
What Can We Measure?



Cylinder Aberration Contour Plot

- Perceived clear vision
- Isometric contour lines (unwanted cylinder)

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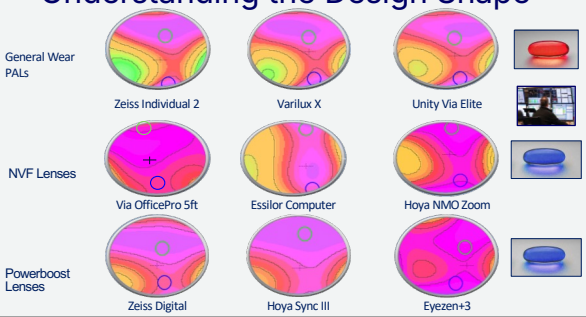
Understanding the Design Shape



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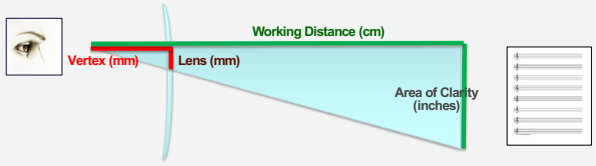
How much clear area is your patient seeing?



$$\text{Area of Clarity (inches)} = \frac{\text{Lens (mm)} \times \text{Working Distance (cm)}}{\text{Vertex (mm)} \times 2.54\ \text{cm/inch}}$$

@ 40 cm: 1 mm = 1.2 inches
@ 67 cm: 1 mm = 2.0 inches

Calculations are simplified and do not take into consideration the center of rotation or the power of the lens.

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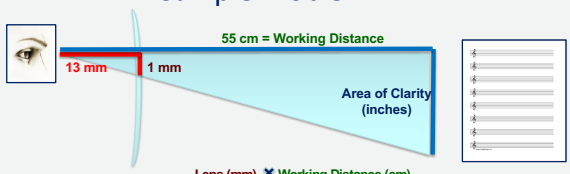
Sample Problem



$$\text{Area of Clarity (inches)} = \frac{\text{Lens (mm)} \times \text{Working Distance (cm)}}{\text{Vertex (mm)} \times 2.54\ \text{cm/inch}}$$

$$\text{Area of Clarity (inches)} = \frac{1 \times 55}{13 \times 2.54} = \frac{55}{33.02} = 1.67\ \text{inches}$$

Calculations are simplified and do not take into consideration the center of rotation or the power of the lens.

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Understanding Computer Lenses

Near Variable Focus - Full Range

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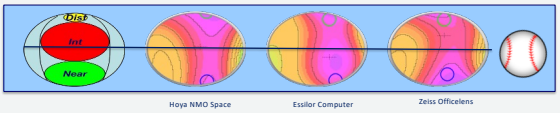
Designs: Near Variable Focus - Full Range



- ✓ Intermediate Add power designed for 60cm – 90cm working distance
  - ✓ +1.67 - +1.12 Dioptric demand
  - ✓ at the fitting cross (FC)/fitting reference point (FRP)
- ✓ FRP is set at pupil center
- ✓ Distance zone is 10-15mm above FRP
- ✓ Transition zone length is 20-30mm
- ✓ Full Near zone 10-15mm below FRP
- ✓ Large frame 'B' dimension (min. 30 mm)

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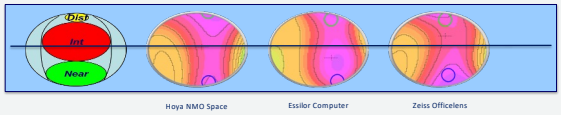
Designs: Near Variable Focus - Full Range



- ✓ Mobile presbyopes - multiple stations/rooms, require some distance vision
- ✓ Doctors, teachers, managers, consultants, receptionists, technicians
- ✓ Lens Design: Intermediate prioritized with some distance vision at the top

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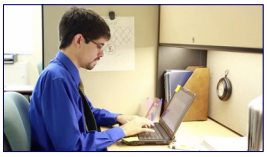
Understanding Computer Lenses

Near Variable Focus for Intermediate/Near



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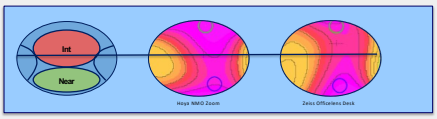
Design: NVF Int/Near



- ✓ Add Power for 60cm – 90cm (24-36 inch) working distance is *centered around fitting reference point*
- ✓ +0.50 to +1.00 EA at "distance"
- ✓ Full Near zone 10-15mm below FRP
- ✓ FRP is set at pupil center
- ✓ Large frame 'B' dimension (min. 30 mm)

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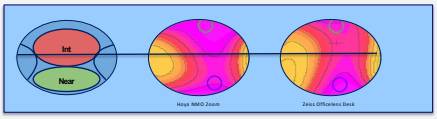
Designs: NVF - Intermediate/Near



- ✓ Stationary Presbyopes – Intermediate to Near with wide FOV
- ✓ Multiple computer screens, cubicle workspace, multiple OTC readers

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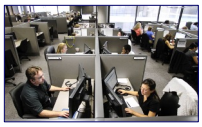
Understanding Computer Lenses

Powerboost as Intermediate/Near



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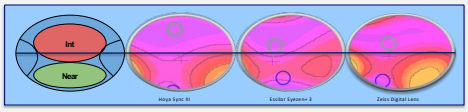
Design: Powerboost as Intermediate/Near



- ✓ "Powerboost": designed and marketed to pre-presbyopes
- ✓ Can be designed for intermediate/near use for presbyopes
- ✓ Large, wide, stable "top" half of lens: Minimal peripheral aberration, edge-to-edge clarity at FRP
- ✓ Transition zone is 3-4 mm below FRP
- ✓ Corridor to full near 9-10 mm
- ✓ Can use smaller frame 'B' dimension (min. 20mm)

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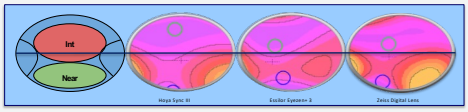
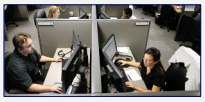
Designs: Powerboost as Intermediate/Near





- ✓ Stationary occupation – Intermediate to Near with wide FOV (no distance)
- ✓ Multiple computer screens, cubicle workspace, multiple OTC readers

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NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
✦ **Essilor** Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

✦ Traditional design, not digital, freeform

Depending on the ADD and Fitting Height, the software determines the corridor lengths above and below the FRP

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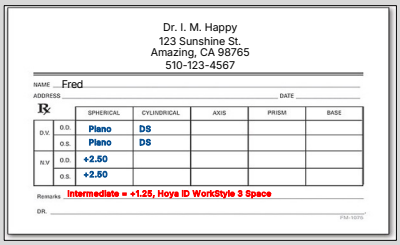
How to Prescribe & Order



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NAME Fred
ADDRESS
DATE

Rx

		SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
D.V.	O.D.	Plano	DS			
	O.S.	Plano	DS			
N.V.	O.D.	+2.50				
	O.S.	+2.50				

Remarks Intermediate = +1.25, Hoya ID WorkStyle 3 Space

DR.

PM-1070

- Select design to satisfy:
  - Intermediate Add
  - Visual Needs
- Dist. Rx, ADD
- Dist. Mono PDs
- VFH to pupil center

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Key Features of Near Variable Focus Product Portfolios

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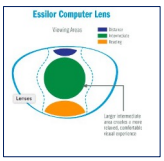
Essilor COMPUTER LENS



ADD Power	Engraving	Back Off
+1.00 to +1.25	10	1.00
+1.50 to +1.75	15	1.50
+2.00 to +2.25	20	2.00
+2.50 to +3.50	25	2.50

- Traditional surfacing
- Poly only
- Full back off 10mm above FRP
- Near 14mm below FRP
- 50% of back off at FRP
- Lab selects back off, max 2.50

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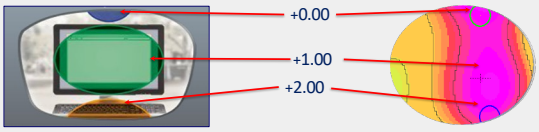
Example: NVF - Full Range

Essilor Computer 2.00 w/50% backoff

- Rx: Plano Add +2.00
- Essilor recommends Computer 2.00 (2.00D Backoff)

NVF - Full Range	Transition Length	Distance (above FRP)	Near (below FRP)	Power at FRP
Computer Lens	24mm	10mm	14mm	50% of BO



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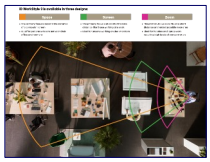
iD WorkStyle 3: Space, Screen, Zoom



- Far point/distance 11-14mm above FRP
- Near 15-18mm below FRP
- Intermediate Add is 50% of patient's full Add

Design	EA @ Far point/Distance	Intermediate EA placement
Space	plano	2.5mm below FRP
Screen	+0.50 D	2.5mm below FRP
Zoom	+1.00 D	at FRP

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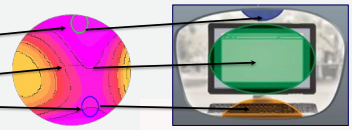
Example: NVF - Int/Near

iD WorkStyle3: Screen and Zoom

- Rx: Plano DS +2.50 Add
- Desktop Computer at 70 cm (+1.25D); near work at 40cm, no distance visual requirements

Hoya NMO	Corridor Length (mm)	"Distance" (above FRP)	Effective Add at "Distance"	Near (mm below FRP)	Power at FRP (~2.5mm below)
Screen	18-24mm	7-10mm	+0.50D	11-14mm	50% ADD*
Zoom	18-24mm	7-10mm	+1.00D	11-14mm	50% ADD

Screen	Zoom
+0.50	+1.00
+1.25	+1.25
+2.50	+2.50



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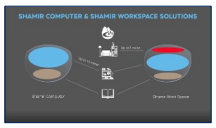
Shamir
WorkSpace, Computer



WorkSpace (Full Range)
- +0.25 EA at the top
- EA at FRP is 50% of add

Computer (Int/Near)
- +0.75 EA at the top
- EA at FRP = 50% Add plus +0.25D

Shamir
Autograph II Office

Backoff design replaced with Dynamic power reduction design

Autograph II Office
- Replaced Shamir Office
- dynamic power reduction 8mm above FRP, max -2.25
- Add 16mm below FRP

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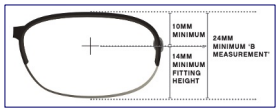
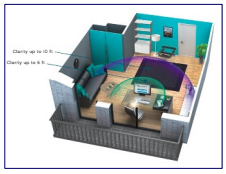
Unity Via OfficePro 5ft & 10ft

Power digression 10mm above FRP
14 mm Min. Fitting Ht.





Unity Via OfficePro 5ft
Power at FRP is designed to view 80cm (+1.25 DD)
- EA +0.67D at top

Unity Via OfficePro 10ft
Power at FRP designed to view 110cm (+0.91 DD)
- EA +0.33D at top

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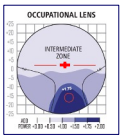
Zeiss OfficeLens: Book, Desk, Room



Fixed intermediate add at FRP
Book +1.25D add
Desk +0.75D add
Room +0.50D add
0.25 reduction 4mm above FRP
Full add 10-15mm below FRP

At the top:
Book +1.00 Desk +0.50 Room +0.25

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Powerboost Lenses Product Portfolio

Power Boost Lenses		Boost at the Bottom
Zeiss Digital Lens	Digital 500 Digital 750 Digital 1000 Digital 1250	+0.50 +0.75 +1.00 +1.25
Eyezen	Eyezen +1 Eyezen +2 Eyezen +3 Eyezen +4	+0.40 +0.60 +0.85 +1.10
Hoya Sync III	Sync 5 Sync 9 Sync 13 Sync 20	+0.57 +0.95 +1.32 +1.89
Unity Relieve	Relieve 50 Relieve 70	+0.50 +0.70
Shamir Relax	Relax 50 Relax 65 Relax 80	+0.50 +0.65 +0.80

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How to Design a Powerboost as Intermediate/Near

EXAMPLE RX

Plano DS-OU with +2.25, Intermediate effective ADD is +1.25

- Determine the EA at intermediate distance
- Select the appropriate Powerboost lens design (diff b/t Int/Near)

Powerboost Lens	Boost	Fit	EA Int/Near
Sync5/Sync9/Sync13	0.55 / **0.95** 1.32/1.89	Pupil	+1.25 / +1.80 **+1.25 / +2.20** +1.25 / +2.57 +1.25 / +3.14
Zeiss Digital Lens	0.50 / 0.75 **1.00** / 1.25	Pupil	+1.25 / +1.75 +1.25 / +2.00 **+1.25 / +2.25** +1.25 / +2.50
Eyezen+ 1/2/3/4	0.40 / 0.60 / **0.85** / 1.10	Pupil	+1.25 / +1.65 +1.25 / +1.85 **+1.25 / +2.10** +1.25 / +2.35
Unity Relieve 50, 70	0.50 / 0.70	Pupil	+1.25 / +1.75 +1.27 / +1.95
Shamir Relax 50,60,80	50 / 60 / 80	Pupil	+1.25 / +1.75 +1.25 / +1.85 +1.25 / +2.05

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How to Prescribe & Order Powerboost for Int/Near

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NAME Fred
ADDRESS _____ DATE _____

Rx		SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
D.V.	O.D.	+1.25	DS			
	O.S.	+1.25	DS			
N.V.	O.D.					
	O.S.					

Remarks **Zeiss Digital 1000 for Intermediate Use**

DR. _____

- Select design (diff b/w int/near)
- Intermediate RX in "distance"
- Intermediate Mono PDs
- VFH to pupil center

	Sph	Cyl	Axis	Add
R	PL	DS		+2.25
L	PL	DS		+2.25

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5 Case Studies

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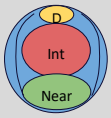
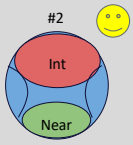
Case #1

- 58 YO Female
- New Administrator job
- CC: Tired eyes, neck/back pain
- MR: -2.25 DS OU Add +2.50
  Intermediate Add +1.25

#1



#2



Visual Case History

Previous Visual Demands	New Visual Demands
Removes glasses Int/Near	Removes glasses Int/Near
Int/Near 2-3 hr/day, intermittent	Int/Near 6 hr/day
iPad	Desktop computer
WD = 40 cm	WD = 70 cm

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-2.25 DS OU Int Add +1.25 Near Add +2.50

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

45

-2.25 DS OU
Int Add +1.25
Near Add +2.50
Diff. b/w Int & Add = 1.25 D

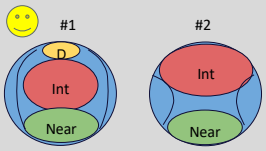
Powerboost Lenses Product Portfolio

Power Boost Lenses		Boost at the Bottom
Zeiss Digital Lens	Digital 500 Digital 750 Digital 1000 Digital 1250	+0.50 +0.75 +1.00 +1.25
Eyezen	Eyezen +1 Eyezen +2 Eyezen +3 Eyezen +4	+0.40 +0.60 +0.85 +1.10
Hoya Sync III	Hoya Sync 5 Hoya Sync 9 Hoya Sync 13 Hoya Sync 20	+0.57 +0.95 +1.32 +1.89
Unity Relieve	Relieve 50 Relieve 70	+0.50 +0.70
Shamir Relax	Relax 50 Relax 65 Relax 80	+0.50 +0.65 +0.80

46

Case #2

- 55 YO Male
- Receptionist
- CC: GW PAL is not working
  - Tilting head up / neck pain
  - Small FOV
- MR: +1.00 DS OU Add +2.00
  Intermediate Add +1.00



Visual Demands
Dist 40%, Int/Near 60%
Desktop computer
WD = 55 cm

47

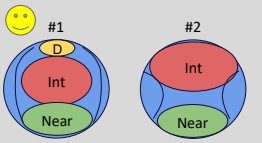
+1.00 DS OU Int Add +1.00 Near Add +2.00

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

48

Case #2

- 55 YO Male
- Receptionist
- CC: GW PAL is not working
  - Tilting head up / neck pain
  - Small FOV
- MR: +1.00 DS OU Add +2.00
  Intermediate Add +1.00

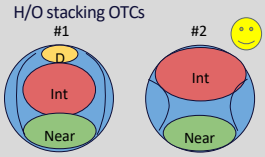


Lens Design	EA @ Distance
Essilor Computer	0.00
Hoya iD WorkStyle 3 Space	0.00
Shamir Autograph II Office	0.00
Shamir Workspace	+0.25
Unity Via OfficePro 10ft	+0.33

49

Case #3

- 48 YO Female
- Homemaker
- CC: Wants one pair of glasses for Int/Near
- MR: Plano DS-OU Add +1.75
  Intermediate Add +0.75D
- H/O stacking OTCs



Visual Case History

Visual Demands
Dist = no Rx
Computer = OTC +0.75D
Near = OTC +1.00D over +0.75D

50

Plano Int Add +0.75 Near Add +1.75

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

51

Plano
Int Add +0.75
Near Add +1.75

Diff. b/w Int & Add = 1.00 D

Powerboost Lenses Product Portfolio

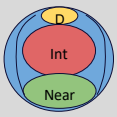
Power Boost Lenses		Boost at the Bottom
Zeiss Digital Lens	Digital 500 Digital 750 Digital 1000 Digital 1250	+0.50 +0.75 +1.00 +1.25
Eyezen	Eyezen +1 Eyezen +2 Eyezen +3 Eyezen +4	+0.40 +0.60 +0.85 +1.10
Hoya Sync III	Hoya Sync 5 Hoya Sync 9 Hoya Sync 13 Hoya Sync 20	+0.57 +0.95 +1.32 +1.89
Unity Relieve	Relieve 50 Relieve 70	+0.50 +0.70
Shamir Relax	Relax 50 Relax 65 Relax 80	+0.50 +0.65 +0.80

52

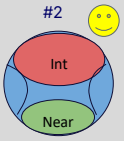
Case #4

- 52 YO Male
- Daytrader
- CC: GW PAL is good, SV near blur
- Lensometry: SV = -5.00DS
- MR: -6.25DS OU Add +2.00
  Intermediate Add +1.25

#1



#2



Visual Case History

Visual Demands
GW PAL, SV Int/Near
Int/Near 90%
Desktop/4 screens, WD 75 cm

53

-6.25DS OU Int Add +1.25 Near Add +2.00

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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-6.25DS OU
Int Add +1.25
Near Add +2.00

Diff. b/w Int & Add = 0.75 D

Powerboost Lenses Product Portfolio

Power Boost Lenses		Boost at the Bottom
Zeiss Digital Lens	Digital 500 Digital 750 Digital 1000 Digital 1250	+0.50 +0.75 +1.00 +1.25
Eyezen	Eyezen +1 Eyezen +2 Eyezen +3 Eyezen +4	+0.40 +0.60 +0.85 +1.10
Hoya Sync III	Hoya Sync 5 Hoya Sync 9 Hoya Sync 13 Hoya Sync 20	+0.57 +0.95 +1.32 +1.89
Unity Relieve	Relieve 50 Relieve 70	+0.50 +0.70
Shamir Relax	Relax 50 Relax 65 Relax 80	+0.50 +0.65 +0.80

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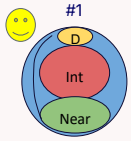
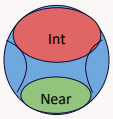
Case #5

- 59 YO Female
- Violin player, first chair, SF Symphony
- CC: PAL not ideal to see music
- MR: -4.50 DS OU Add +2.50
  Intermediate Add +1.25

#1



#2



Visual Case History

Visual Demands
Music and conductor
Dist/Int
WD 80 cm - opt. infinity

56

-4.50 DS OU Int Add +1.25 Near Add +2.50

NVF Lens Design	Eff. ADD @ FRP	Eff. ADD @ Lens Top
Zeiss OfficeLens: Room, Desk, Book	Room +0.50 Desk +0.75 Book +1.25	Room +0.25 Desk +0.50 Book +1.00
Essilor Computer Lens	50% of the Backoff Power	0.00 to +0.25 (max back off -2.50)
Hoya iD WorkStyle 3: Space, Screen, Zoom	Space/Screen: 50% add @2.5mm below FRP Zoom: 50% of Add	Space +0.00 Screen +0.50 Zoom +1.00
Unity Via OfficePro: 10ft., 5 ft.	range of vision for: 10ft @110cm 5ft @80cm	10ft +0.33 5ft +0.67
Shamir Workspace/Computer	Workspace: 50% of Add Computer: 50% of Add plus +0.25D	Workspace +0.25 Computer +0.75
Shamir Autograph II Office	50% of the ADD or max of -2.25	Add reduction up to max -2.25

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Case #5

- 59 YO Female
- Violin player, first chair, SF Symphony
- CC: PAL not ideal to see music
- MR: -4.50 DS OU Add +2.50
  Intermediate Add +1.25

Lens Design	EA @ Distance
Essilor Computer	0.00
Hoya iD WorkStyle 3 Space	0.00
Shamir Autograph II Office	+0.25
Shamir Workspace	+0.25

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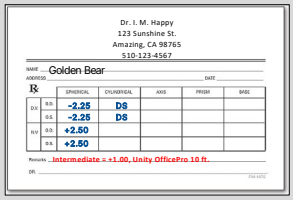
Rx recommendations to avoid confusion



Dr. I. M. Happy
123 Sunshine St.
Amazing, CA 98765
510-123-4567

NAME Golden Bear DATE
ADDRESS

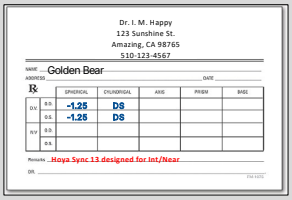
Rx

		SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
D.V.	O.D.	-2.25	DS			
	O.S.	-2.25	DS			
N.V.	O.D.	+2.50				
	O.S.	+2.50				

Remarks Intermediate = +1.00, Unity OfficePro 10 ft.

DR.

FM 4370



Dr. I. M. Happy
123 Sunshine St.
Amazing, CA 98765
510-123-4567

NAME Golden Bear DATE
ADDRESS

Rx

		SPHERICAL	CYLINDRICAL	AXIS	PRISM	BASE
D.V.	O.D.	-1.25	DS			
	O.S.	-1.25	DS			
N.V.	O.D.					
	O.S.					

Remarks Hoya Sync 13 designed for Int/Near

DR.

FM 4370

Master Rx with Intermediate ADD
- Include Intermediate Add power
- Specify NVFL design

Powerboost Rx for Int/ Near use
- Release Master Rx
- Write separate Rx for PB
- Specify PB design & use

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At the End of the Day

- Did I address the chief concern with the appropriate recommendations?
- Is it an improvement over what they are used to?
- Continue to develop your skills in the art and science of vision care

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On behalf of Vision Expo, I sincerely thank you for being here this year.

Vision Expo Has Gone Green!

We have eliminated all paper session evaluation forms.
Please be sure to complete your electronic session evaluations online when you login to request your CE Letter for each course you attended!
Your feedback is important to us as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.

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